

NO

Result No.	Score	Query	Match	Length	DB	ID	Description
1	253.6	77.6	3208	4	US-09-780-016-27	Sequence 27, Appl	
2	90	27.5	301	4	US-09-313-294A-492	Sequence 492, Appl	
3	31	9.5	2408	1	US-08-608-241-1	Sequence 1, Appl	
4	31	9.5	2408	2	US-08-922-182-1	Sequence 1, Appl	
5	31	9.5	2408	2	US-08-919-953-1	Sequence 1, Appl	
6	31	9.5	2408	3	US-09-192-983-1	Sequence 1, Appl	
7	30	9.2	648	4	US-09-599-360B-27	Sequence 27, Appl	
8	29.2	8.9	2951	1	US-08-386-727-7	Sequence 7, Appl	
9	28.6	8.9	2951	2	US-08-600-452A-7	Sequence 7, Appl	
10	28.6	8.7	648	4	US-09-252-991A-4236	Sequence 4236, Appl	
11	28.6	8.7	723	4	US-09-252-991A-9470	Sequence 9470, Appl	
12	28.6	8.7	1080	1	US-07-598-873-1	Sequence 1, Appl	
13	28.6	8.7	1080	1	US-08-425-1	Sequence 1, Appl	
14	28.6	8.7	1080	1	US-08-396-531-1	Sequence 1, Appl	
15	28.6	8.7	1488	4	US-09-252-991A-4168	Sequence 4168, Appl	
16	28.6	8.7	2618	4	US-09-857-556A-25	Sequence 25, Appl	
17	28.4	8.7	3420	1	US-08-117-491-25	Sequence 25, Appl	
18	28.4	8.7	3420	1	US-08-271-364-6	Sequence 6, Appl	
19	28.4	8.7	3420	2	US-08-222-715B-25	Sequence 25, Appl	
20	28.4	8.7	4707	1	US-08-004-139B-2	Sequence 2, Appl	
21	28.4	8.7	4707	2	US-08-811-492-2	Sequence 2, Appl	
22	28.4	8.7	4707	5	PCT-US96-10544A-2	Sequence 2, Appl	
23	28.4	8.7	35524	3	US-08-923-137-1	Sequence 1, Appl	
24	28.2	8.6	31880	4	US-09-453-702B-242	Sequence 242, Appl	
25	28	8.6	42931	4	US-08-311-731A-129	Sequence 129, Appl	
26	27.6	8.4	903	4	US-09-107-532A-2965	Sequence 2965, Appl	
27	27.6	8.4	70000	4	US-09-851-896-3	Sequence 3, Appl	

RESULT 2

US-09-313-294A-492

Sequence 492, Application US/09313294A

Patent No. 6476212

GENERAL INFORMATION:

APPLICANT: Laligudi, Raghunath V.

APPLICANT: Tro, Laura V.

APPLICANT: Sherman, Bradley K.

FILE REFERENCE: PL-0017 US

TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR

CURRENT APPLICATION NUMBER: US/09/313, 294A

CURRENT FILING DATE: 1999-05-14

NUMBER OF SEQ ID NOS.: 7600

SOFTWARE: PERL Program

SEQ ID NO 492

LENGTH: 301

TYPE: DNA

ORGANISM: Zea mays

FEATURE: NAME/KEY: misc_feature

OTHER INFORMATION: Incyte ID No. 6476212 700549333H1

US-09-313-294A-492

Query Match 38 Score 90; DB 4; Length 301; Best Local Similarity 74.0%; Pred. No. 1.2e-21; Indels 0; Gaps 0; Matches 114; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

Db 146 CCTCTCCGCAAGCCACAAAGGCTTCGAGTCAAAGGTGAACCTCTATGGATCTT 97

Query 98 GGGCCTGGATATCTGGTGTGATACTGGCCATCTGGAAACCATATGGATCTT 157

Db 206 GGGATGGATATCTGGTGTGACACTGGCTATCTGGCAACCATCTGGATCTT 265

Query 158 GCATAGAATGTCAGTAACAGCTAACAGGGCTCTAC 191

Db 266 GCATCGAGTCGGCAAGGCAACAGCCAGGGGAC 299

RESULT 3

US-08-608-241-1

Sequence 1, Application US/08608241

Patent No. 5747728

GENERAL INFORMATION:

APPLICANT: Donohue, Timothy J.

APPLICANT: Barber, Robert D.

APPLICANT: Wittuhn, Vernon

TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE

NUMBER OF SEQUENCES: 7

TITLE OF INVENTION: SENSING AND REMEDIATION

CORRESPONDENCE ADDRESS:

ADDRESSEE: Quarles & Brady

STREET: 1 South Pinckney Street

CITY: Madison

STATE: WI

ZIP: 53703

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.3.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/608, 241

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Ssey, Nicholas J.

REGISTRATION NUMBER: 27, 386

REFERENCE/DOCKET NUMBER: 960296.93511

TELECOMMUNICATION INFORMATION:

TELEPHONE: 608-251-5000

TELEFAX: 608-251-9166

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 2408 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

ORGANISM: Rhodobacter sphaerooides

STRAIN: 2.4.1

FEATURE:

NAME/KEY: -35 signal

LOCATION: 262..267

FEATURE:

NAME/KEY: -10 signal

LOCATION: 285..290

FEATURE:

NAME/KEY: CDS

LOCATION: 346..1476

OTHER INFORMATION: /product= "Adh1 Class III Alcohol Dehydrogenase Gene"

US-08-608-241-1

Query Match 27 Score 9.5%; Best Local Similarity 53.8%; Pred. No. 1.1%; Matches 64; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

Db 351 CACCGTGCCTGGCTCCAGGCCAGCGCTGAGATCATGGAGTCATAAT 410

Query 87 AGTAGCCCTCTGGGCTGGATATTGTGTGATACTGTGCATCTGGACACA 145

Db 411 CGAGGCCCAAGGCCGAGSTCATGTGAGATCAAGGCCACGGCATCTGCACAA 469

RESULT 4

US-08-92-182-1

Sequence 1, Application US/08922182

Patent No. 5834300

GENERAL INFORMATION:

APPLICANT: Donohue, Timothy J.

APPLICANT: Barber, Robert D.

APPLICANT: Wittuhn, Vernon

TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE

TITLE OF INVENTION: SENSING AND REMEDIATION

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSEE: Quarles & Brady

STREET: 1 South Pinckney Street

CITY: Madison

STATE: WI

COUNTRY: US

ZIP: 53703

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.3.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/922, 182

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/608, 241

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Ssey, Nicholas J.

REGISTRATION NUMBER: 27, 386

REFERENCE/DOCKET NUMBER: 960296.93511

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 608-251-5000
 TELEFAX: 608-251-9166

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2408 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ORIGINAL SOURCE: Rhodobacter sphaeroides

STRAIN: 2.4.1
 FEATURE:
 NAME/KEY: -35 signal
 LOCATION: 262..267
 FEATURE:
 NAME/KEY: -10 signal
 LOCATION: 285..290
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 346..1476
 OTHER INFORMATION: /product= "AdhI Class III Alcohol
 OTHER INFORMATION: Dehydrogenase Gene"
 US-08-922-182-1

Query Match 9.5%; Score 31; DB 2; Length 2408;
 Best Local Similarity 53.8%; Pred. No. 1.1; Indels 0; Gaps 0;
 Matches 64; Conservative 0; Mismatches 55; Delins 0; Gaps 0;

Qy	27	CCGAGCGCACCAACAGCGCGCCGGCAAGAGCTTGAAAGTGTAAAAGCTGGATGC	86
Db	351	CACCGTCGGCTCGGCTCGGTCGGCTCGGTCAGGGCGCTCGGTCAGGGCAAGCGCTCGGTCAGATGAGTCATCT	410
Qy	87	AGTAGCCCTCTGGGCTCGATATTGTCGTTGATAACTGTGCATCTGAGATCATGAGTCATCTGCA	145
Db	411	CGAAGGCCCAAGGCCGAGTCATGGTCGAGATCAAGGCCACCGCATCTGCCACA	469

RESULT 5
 US-08-919-953-1
 Sequence 1, Application US/08919953
 Patent No. 5837481
 GENERAL INFORMATION:
 APPLICANT: Donohue, Timothy J
 ATTORNEY: Barber, Robert D
 APPLICANT: Wittuhn, Vernon
 TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE SENSING AND REMEDIATION
 TITLE OF INVENTION: SENSING AND REMEDIATION
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSSEE: Charles & Brady
 STREET: 1 South Pinckney Street
 CITY: Madison
 STATE: WI
 COUNTRY: US
 ZIP: 53703

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/919,953
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/608,241
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Seay, Nicholas J
 REGISTRATION NUMBER: 27,386
 REFERENCE/DOCKET NUMBER: 960296.93311

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 608-251-5000
 TELEFAX: 608-251-9166

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2408 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ORIGINAL SOURCE: Rhodobacter sphaeroides

STRAIN: 2.4.1
 FEATURE:
 NAME/KEY: -35 signal
 LOCATION: 262..267
 FEATURE:
 NAME/KEY: -10 signal
 LOCATION: 285..290
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 346..1476
 OTHER INFORMATION: /product= "AdhI Class III Alcohol
 OTHER INFORMATION: Dehydrogenase Gene"
 US-08-919-953-1

Query Match 9.5%; Score 31; DB 2; Length 2408;
 Best Local Similarity 53.8%; Pred. No. 1.1; Indels 0; Gaps 0;
 Matches 64; Conservative 0; Mismatches 55; Delins 0; Gaps 0;

Qy	27	CCGAGCGCACCAACAGCGCGCCGGCAAGAGCTTGAAAGTGTAAAAGCTGGATGC	86
Db	351	CACCGTCGGCTCGGCTCGGTCGGCTCGGTCAGGGCGCTCGGTCAGGGCAAGCGCTCGGTCAGATGAGTCATCT	410
Qy	87	AGTAGCCCTCTGGGCTCGATATTGTCGTTGATAACTGTGCATCTGAGATCATGAGTCATCTGCA	145
Db	411	CGAAGGCCCAAGGCCGAGTCATGGTCGAGATCAAGGCCACCGCATCTGCCACA	469

RESULT 6
 US-09-192-983-1
 Sequence 1, Application US/09192983A
 Patent No. 6242244
 GENERAL INFORMATION:
 APPLICANT: Donohue, Timothy J
 ATTORNEY: Barber, Robert D
 APPLICANT: Wittuhn, Vernon
 TITLE OF INVENTION: Microbial System for Formaldehyde Sensing and Remediation
 FILE REFERENCE: 960296.95505
 CURRENT APPLICATION NUMBER: US/09/192,983A
 CURRENT FILING DATE: 1998-11-16
 EARLIER APPLICATION NUMBER: 08/919,953
 EARLIER FILING DATE: 1997-08-29
 EARLIER APPLICATION NUMBER: 08/608,241
 EARLIER FILING DATE: 1996-02-28
 NUMBER OF SEQ ID NOS: 7
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1
 LENGTH: 2408
 TYPE: DNA
 ORGANISM: Rhodobacter sphaeroides
 FEATURE:
 NAME/KEY: -35 signal
 LOCATION: (262)..(267)
 FEATURE:
 NAME/KEY: -10 signal
 LOCATION: (285)..(290)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (346)..(1476)
 OTHER INFORMATION: Dehydrogenase Gene

US-09-192-983-1

Query Match 9.5%; Score 31; DB 3; Length 2408;
 Best Local Similarity 53.8%; Prod. No. 1.1;
 Matches 64; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
 SEQ ID NO: 123

Qy 27 CCCGAGCGCACCAACAGGCCGGAAAGAAGCTTGAGTGAAAGTGGATGC 86
 Db 351 CACCGTGCGGCTGCGCTGCGTGGCCAGGCCGCTGGATCATGGGTCATCT 410

Qy 87 ATGAGCCCTCTGGGATATTGGTGTGATAACTGTGCCATCTGAGAAACACA 145
 Db 411 CGAGGCCCAAGCCGAGGTATGCGAGATCAGGCCACCGCATCTGCCACA 469

RESULT 7
 US-09-599-360B-27
 Sequence 27, Application US/09599360B
 Patent No. 6548633
 GENERAL INFORMATION:
 APPLICANT: Dumas Milne Edwards, J.B.
 APPLICANT: Bouquelert, L.
 APPLICANT: Jobert, S.
 TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
 FILE REFERENCE: GENSET_050CP3
 CURRENT APPLICATION NUMBER: US/09/599,360B
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 60/113,686
 PRIOR FILING DATE: 1998-12-22
 PRIOR APPLICATION NUMBER: 60/141,032
 PRIOR FILING DATE: 1999-06-25
 PRIOR APPLICATION NUMBER: 09/469,099
 PRIOR FILING DATE: 1999-12-21
 NUMBER OF SEQ ID NOS: 123
 SOFTWARE: Patent.pm
 SEQ ID NO 27
 LENGTH: 448
 TYPE: DNA
 ORGANISM: Homo Sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 187..438
 NAME/KEY: polyA_signal
 LOCATION: 612..617
 NAME/KEY: polyA_site
 LOCATION: 632..648

RESULT 8
 US-08-386-727-7/C
 Sequence 7, Application US/08386727
 Patent No. 579647
 GENERAL INFORMATION:
 APPLICANT: ROSEMAN, SAUL
 APPLICANT: BASSLER, BONNIE
 APPLICANT: KEYHANI, NEMAT O.
 APPLICANT: CHITLARU, EDITH
 APPLICANT: ROWE, CHARLES
 TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 APPLICANT: ROSEMAN, SAUL
 APPLICANT: BASSLER, BONNIE
 APPLICANT: KEYHANI, NEMAT O.
 APPLICANT: CHITLARU, EDITH
 APPLICANT: ROWE, CHARLES
 TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:

ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
 STREET: 1100 NEW YORK AVENUE, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/386,727
 FILING DATE: US/08/386,727
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: ROBBS, ANN S.
 REGISTRATION NUMBER: 36,830
 REFERENCE/DOCKET NUMBER: 4130/206916
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2951 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-386-727-7
 Query Match 8.9%; Score 29.2; DB 1; Length 2951;
 Best Local Similarity 62.2%; Pred. No. 5.3;
 Matches 46; Conservative 0; Mismatches 28; Indels 0; Gaps 0;
 Qy 3 GCGGCAGCGATGGATACCCGAGGGCACCAACAGGGGGAGAGGCG 62
 Db 151 GCGGCAGCGAGGGGGAGGTAGAAAGAGGCCACACGAAATGCCAGGGATG 92
 Qy 63 CTTTGAAGTGGAAA 76
 Db 91 TTTTGGACTGAAACA 78

RESULT 9
 US-08-600-452A-7/C
 Sequence 7, Application US/08600452A
 Patent No. 5985644
 GENERAL INFORMATION:
 APPLICANT: ROSEMAN, SAUL
 APPLICANT: BASSLER, BONNIE
 APPLICANT: KEYHANI, NEMAT O.
 APPLICANT: CHITLARU, EDITH
 APPLICANT: ROWE, CHARLES
 APPLICANT: YU, CHARLES
 TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: FISH & RICHARDSON P.C.
 STREET: 4225 Executive Square, Suite 1400
 CITY: La Jolla
 STATE: CA
 COUNTRY: USA
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/600,452A
 FILING DATE: 13-FEB-1996

CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Halle, Lisa A.
 REGISTRATION NUMBER: 38-347
 REFERENCE/DOCKET NUMBER: 07662/005001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 678-5070
 TELEFAX: (619) 678-5099
 TELEX:
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2951 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)

Query Match 8.9%; Score 29.2; DB 2; Length 2951;
 Best Local Similarity 62.2%; Pred. No. 5.3; Indels 0; Gaps 0;
 Matches 46; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 3 GGGGGCAGCAGTGGATACCCCGAGGGCGACCAAACAGGGCGGGCAAGAACGCG 62
 Db 151 GGGGCAGCAGGGGGAGGTAGAACAGAGCCCCCGACAGAAATCCAGCAGGGGATG 92
 Qy 63 CTTGAACTGAAA 76
 Db 91 TTTGGACTGAAAC 78

RESULT 10
 US-09-252-991A-4236/c
 Patent No. 6551795
 GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196-136
 CURRENT APPLICATION NUMBER: US/09/252, 991A
 CURRENT FILING DATE: 1999-02-18
 PRIOR APPLICATION NUMBER: US 60/074, 788
 PRIOR FILING DATE: 1998-02-18
 PRIOR APPLICATION NUMBER: US 60/094, 190
 PRIOR FILING DATE: 1998-07-27
 SEQ ID NO 4236
 LENGTH: 648
 TYPE: DNA
 ORGANISM: *Pseudomonas aeruginosa*
 US-09-252-991A-4236

Query Match 8.7%; Score 28.6; DB 4; Length 648;
 Best Local Similarity 54.2%; Pred. No. 4; Indels 0; Gaps 0;
 Matches 58; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy 16 GATGGGATACCCCGAGGGACCAAACAGGGCGGGCAAGAGGGCTTGAGTCAA 75
 Db 509 GAGGTGCAAGAAGTGAACGACAAGTTCATGGTAGAGTCACTGGAAAGCCA 450
 Qy 76 AAGTGGAAATGCACTAGGCCCTCAGGGCTGGGATATTGGTGTGATAA 122
 Db 449 GAGGGGACCTCATGGCTGTCAGGGGGCTGACCTCATGGAAA 403

RESULT 11
 US-09-252-991A-9470/c
 Sequence 9470, Application US/09252991A
 GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196-136
 CURRENT APPLICATION NUMBER: US/09/252, 991A
 CURRENT FILING DATE: 1999-02-18
 PRIOR APPLICATION NUMBER: US 60/074, 788
 PRIOR FILING DATE: 1998-02-18
 PRIOR APPLICATION NUMBER: US 60/094, 190
 PRIOR FILING DATE: 1998-07-27
 SEQ ID NO 9470
 LENGTH: 723
 TYPE: DNA
 ORGANISM: *Pseudomonas aeruginosa*
 US-09-252-991A-9470

Query Match 8.1%; Score 28.6; DB 4; Length 723;
 Best Local Similarity 48.5%; Pred. No. 4.3;
 Matches 79; Conservative 0; Mismatches 84; Indels 8
 GCGATGGATGGGATACCCGGAGGGCACCAACAGGGGGGGCAAGAGGGCTTGAA 69
 Qy 10 651 GAGTTGCGAGTCGACCGCGGATCGTCATCTCCCTGGGAGGGCGCAACTGGTGC 592
 Db 70 591 CGGCACCCAGGGATGGAGGGCCGTCGAGGACCACTACCGGCCCTGATGTTCTGGC 532
 Qy 130 531 ATCTGCAGGAACCACTTATGGATCTTGCATAGAATGTCAG 172
 Db 531 ATGGCGGGTCCGGGTATCAGGGTCCATGGAAAGGACAG 489

RESULT 12
 US-09-252-991A-4236/c
 Sequence 1, Application US/07598873
 Patent No. 524800
 GENERAL INFORMATION:
 APPLICANT: BIRD, COLIN R
 APPLICANT: GRIERSON, DONALD
 APPLICANT: RAY, JOHN A
 APPLICANT: SCHUCH, WOLFGANG W
 TITLE OF INVENTION: DNA, CONSTRUCTS, CELLS AND PLANTS
 TITLE OF INVENTION: DERIVED THEREFROM
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
 STREET: Eleventh Floor, 1615 L Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20036-5601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 FILING DATE: 1990/01/09
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: WILSON, MARY J.
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1080 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to mRNA

HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: *Lycopersicon esculentum*
 STRAIN: Ailsa Craig
 DEVELOPMENTAL STAGE: Ripening
 US-07-598-873-1

Query Match 8.7%; Score 28.6; DB 1; Length 1080;
 Best Local Similarity 61.3%; Prd. No. 5.2;
 Matches 46; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
 RESULT 14

Qy 221 TCTGTAACCATGCTTTCACCTCCACTCTGGCTCAAACAGCAGGTGT 280
 Db 742 TCTTAACTTCTTGATCAATTCACTGGCATATGGTACTGGATACAAACCT 683

Qy 281 GTCCATGGACACA 295
 Db 682 GCTTTGATACACA 668

Query Match 8.7%; Score 28.6; DB 1; Length 1080;
 Best Local Similarity 61.3%; Prd. No. 5.2;
 Matches 46; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
 RESULT 14

Qy 221 TCTGTAACCATGCTTTCACCTCCACTCTGGCTCAAACAGCAGGTGT 280
 Db 742 TCTTAACTTCTTGATCAATTCACTGGCATATGGTACTGGATACAAACCT 683

Qy 281 GTCCATGGACACA 295
 Db 682 GCTTTGATACACA 668

RESULT 13

US-08-073-425-1/C
 Sequence 1, Application US/08073425
 Patent No. 5563829

GENERAL INFORMATION

APPLICANT: BIRD, COLIN R
 ADDRESS: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

APPLICANT: BONIWELL, JEREMY M.
 ADDRESS: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

APPLICANT: GRIERSON, DONALD
 ADDRESS: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

APPLICANT: RAY, JOHN A
 ADDRESS: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

APPLICANT: SCHUCH, WOLFGANG W
 ADDRESS: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

TITLE OF INVENTION: PLANTS
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESS: CUSHMAN, DARBY & CUSHMAN
 STREET: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/396,531
 PRIORITY NUMBER: US 08/396,537
 FILING DATE: 16-APR-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULS, PAUL N.
 REGISTRATION NUMBER: 16,773
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1080 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to mRNA
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: *Lycopersicon esculentum*
 STRAIN: Ailsa Craig
 DEVELOPMENTAL STAGE: Ripening
 US-08-073-425-1

Query Match 8.7%; Score 28.6; DB 1; Length 1080;
 Best Local Similarity 61.3%; Prd. No. 5.2;
 Matches 46; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
 RESULT 14

Qy 221 TCTGTAACCATGCTTTCACCTCCACTCTGGCTCAAACAGCAGGTGT 280
 Db 742 TCTTAACTTCTTGATCAATTCACTGGCATATGGTACTGGATACAAACCT 683

Query Match 8.7%; Score 28.6; DB 1; Length 1080;
 Best Local Similarity 61.3%; Prd. No. 5.2;
 Matches 46; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
 RESULT 14

Qy 281 GTCCATGGACACA 295
 Db 682 GCTTTGATACACA 668

RESULT 15
US-09-252-991A-4168/c
Sequence 4168 Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252.991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 4168
LENGTH: 1488
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-4168

Query Match 8.7%; Score 28.6; DB 4; Length 1488;
Best Local Similarity 54.2%; Pred. No. 6.1;
Matches 58; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
Qy 16 GATGTCGATACCCGAGGGACCAACAGGGCGGGCAAGAGCCCTTGAAAGTGAAGA 75
Db 846 GAGGTGCAAGGTGACGACAGTTCATGGTGGATGAGATGAGAAGGCACTGGAAAGC 787

Qy 76 AACTGGAAATGGCAGTAGCCCTCGGCCCTGGATATTGTGTGATAA 122

Db 786 GAGGGGGAGCTCATGGCTGTCAGGGGGCTGACCTCATGGAAA 740

Search completed: January 22, 2004, 13:55:30
Job time : 52 secs

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Result No.	Score	Query Match	Length	DB ID	Description
1	325	99.4	476	11	Sequence 17191, A
c 2	321.8	98.4	4543	15	Sequence 11311, A
c 3	302.4	92.5	380	10	Sequence 4677, AP
c 4	301.2	92.1	5347	13	Sequence 99, AP
c 5	296.8	90.8	5111	15	Sequence 382, AP
c 6	253.6	77.6	3208	15	Sequence 27, AP
c 7	253.6	77.6	3208	15	Sequence 27, AP
c 8	205.8	62.9	4439	11	Sequence 14717, A
c 9	183.8	56.2	175561	15	Sequence 3, AP
c 10	173	52.9	390	9	Sequence 20, AP
c 11	157.4	48.1	418	9	Sequence 220, AP
c 12	138.8	42.4	415	15	Sequence 2493, AP
c 13	102.2	31.3	812	12	Sequence 049-751, AP
c 14	76.4	23.4	271	9	Sequence 735, AP
c 15	76	23.2	836	10	Sequence 39, AP

RESULT 3

US-10-198-946-11311/C

Sequence 11311, Application US/10198846

Publication No. US2003009974A1

GENERAL INFORMATION:

APPLICANT: Lillie, James

APPLICANT: Xu, Yongyao

APPLICANT: Wang, Youzhen

APPLICANT: Steinmann, Kathleen

TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF BREAST CANCER

TITLE OF INVENTION: THERAPY OF BREAST CANCER

FILE REFERENCE: MRI-049

CURRENT APPLICATION NUMBER: US/10/198,846

CURRENT FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: 60/306,220

PRIOR FILING DATE: 2001-07-18

NUMBER OF SEQ ID NOS: 14084

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 11311

LENGTH: 4543

TYPE: DNA

ORGANISM: Homo sapiens

US-10-198-846-11311

RESULT 2

US-10-198-946-11311/C

Sequence 11311, Application US/10198846

Publication No. US2003009974A1

GENERAL INFORMATION:

APPLICANT: Lillie, James

APPLICANT: Xu, Yongyao

APPLICANT: Wang, Youzhen

APPLICANT: Steinmann, Kathleen

TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF BREAST CANCER

TITLE OF INVENTION: THERAPY OF BREAST CANCER

FILE REFERENCE: MRI-049

CURRENT APPLICATION NUMBER: US/10/198,846

CURRENT FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: 60/306,220

PRIOR FILING DATE: 2001-07-18

NUMBER OF SEQ ID NOS: 14084

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 11311

LENGTH: 4543

TYPE: DNA

ORGANISM: Homo sapiens

US-10-198-846-11311

Query 194 CTTGGCCATTCTGGAGGACCATTTATGATCTTGGCATAGATGTAAGGC 253

Query 183 GTCGGCTACTTCAGAGGTGACTGTGGCATGGGAGCTGTAACTGCTTCTT 242

Query 254 GTCGGCTACTTCAGAGGTGACTGTGGCATGGGAGCTGTAACTGCTTCTT 313

Query 243 CCACTGGATCTCTCGTCGCTCAAACAGACAGGGTGTCCATTGGACAACAGAGCTG 302

Query 314 CCACTGGATCTCTCGTCGCTCAAACAGACAGGGTGTCCATTGGACAACAGAGCTG 373

Query 303 GGATTCAAAAGTATGGCACTAG 327

Db 374 GGATTCAAAAGTATGGCACTAG 398

Query 374 GGATTCAAAAGTATGGCACTAG 398

RESULT 2

US-09-960-352-4677

Query Match 92.5%; Score 302.4; DB 10; Length 380;

Best Local Similarity 96.6%; Prcd. No. 2e-97; Mismatches 0; Indels 0; Gaps 0;

Matches 309; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 8 CAGCGATGGATGGATACCCAGGGGACACACAGGGGGCAAGAAGGGCTTTC 67

Db 2 CAGGGATGGATGGATACCCAGGGGACACACAGGGGGCAAGAAGGGCTTTC 61

Qy 68 AGTGAAGAAAGTGGATGGATGGATGGCTGGGATAATGGTTGATAACTGTG 127

Db 62 AGTGAAGAAAGTGGATGGATGGCTGGGCTGGGATATGGTTGATAACTGTG 121

Qy 128 CACATCTGGAGAACCATTTGGATCTTGGATAGTGTCAAGCTAACAGGGTCCG 187

Db 122 CACATCTGGAGAACCATTTGGATCTTGGATAGTGTCAAGCTAACAGGGTCCG 181

Qy 188 CTTCTCAGAGCTGACTGACTGTGGCATGGGATCTGAACTTCATCTCCACT 247

Db 182 CTACTCTCGTGTGGCTGGCTGGCTGGCTGGCTGTAACTCTCCACT 241

Qy 248 GATCTCTCGTGTGGCTCAAACAGACAGGGTGTCCATTGGACAACAGAGTGGAAAT 307

Db 242 GATCTCTCGTGTGGCTGGCTCAAACAGACAGGGTGTCCATTGGACAACAGAGTGGAAAT 301

RESULT 4

US-10-240-965-99/C

Sequence 99, Application US/10240965

Publication No. US20030165924A1

GENERAL INFORMATION:

APPLICANT: INCYTE GENOMICS, INC.

APPLICANT: SHIFFMAN, Dov

APPLICANT: SOMOGYI, Roland

APPLICANT: LAWN, Richard M.

APPLICANT: SEILHAMER, Jeffrey J.

APPLICANT: PORTER, Gordon J.

APPLICANT: MIRKITA, Thomas

APPLICANT: TAI, Julie

TITLE OF INVENTION: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION

FILE REFERENCE: PA-005 PCT

CURRENT APPLICATION NUMBER: US/10/240,965

CURRENT FILING DATE: 2002-10-04

PRIOR APPLICATION NUMBER: 60/195,106

PRIOR FILING DATE: 2000-04-05

NUMBER OF SEQ ID NOS: 276

SEQ ID NO: 99

LENGTH: 5347

TYPE: DNA

ORGANISM: Homo sapiens

Sequence 4677, Application US/09960352

FEATURE:
 NAME/KEY: misc feature
 OTHER INFORMATION: Incyte ID No. US20030165924A1 364940.19
 US-10-240-965-99

Query Match 92.1%; Score 301.2; DB 13; Length 5347;
 Best Local Similarity 98.7%; Pred. No. 1.8e-96;
 Matches 314; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 3 GGGCAGGGATGGATGGTGGATACCGAGGGCACCACAGGGGGGGCAAGAGGCC 62
 Db 519 GCCGAGGATGGATGGTGGATACCCAGGGGAGGAGC 460

Qy 62 GCTTGTGGTGGAAAAGTGAATGCACTAGGCCCTCTGGCCGGATATGGTGTATA 121
 Db 459 GCTTGTGGTGGAAAAGTGAATGCACTAGGCCCTCTGGCCGGATATGGTGTATA 400

Qy 122 ACTGTGCCATCTCGAGGAAACCATTATGATCTTGTCAAGTAACTACCG 181
 Db 399 ACTGTGCCATCTCGAGGAAACCATTATGATCTTGTCAAGTAACTACCG 340

Qy 182 CGTCCGCTACTTCAGAAGAGTGTACTCTGCATGGGAGTCTGTAACCATGGTGTACTTGT 302
 Db 339 CGTCCGCTACTTCAGAAGAGTGTACTCTGCATGGGAGTCTGTAACCATGGTGTACTTGT 280

Qy 242 TCCACTGCTATCTCGCNGCTTAACACGACAGGTGTCCATTGGACACAGACGT 301
 Db 279 TCCACTGCTATCTCGCNGCTTAACACGACAGGTGTCCATTGGACACAGACGT 220

Qy 302 GGGATTCCAAAGTATG 319
 Db 219 GGGATTCCAAAGTATG 202

RESULT 5
 US-10-205-823-382/C
 Sequence 382, Application US/10205823
 Publication No. US20030108963A1
 GENERAL INFORMATION:
 APPLICANT: Schlegel, Robert
 APPLICANT: Monahan, John E.
 APPLICANT: Endege, Wilson O.
 APPLICANT: Gannavarapu, Manuila
 APPLICANT: Gorbarcheva, Bella
 APPLICANT: Hoersch, Sebastian
 APPLICANT: Kamatkar, Shubhangi
 APPLICANT: Wonsley, Angela M.
 APPLICANT: Glatt, Karen
 APPLICANT: Zhao, Xumei
 APPLICANT: Anderson, Dustin
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
 METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 THERAPY OF PROSTATE CANCER
 FILE REFERENCE: MRI-044
 CURRENT APPLICATION NUMBER: US/10/205,823
 PRIOR APPLICATION NUMBER: 60/307,982
 PRIOR FILING DATE: 2001-07-25
 PRIOR APPLICATION NUMBER: 60/314,356
 PRIOR FILING DATE: 2001-08-22
 PRIOR APPLICATION NUMBER: 60/325,020
 PRIOR FILING DATE: 2001-09-25
 PRIOR APPLICATION NUMBER: 60/341,746
 PRIOR FILING DATE: 2001-12-12
 PRIOR APPLICATION NUMBER: 60/162,158
 NUMBER OF SEQ ID NOS: 455
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 382

Query Match 90.8%; Score 296.8; DB 15; Length 5111;
 Best Local Similarity 99.8%; Pred. No. 6.7e-55;
 Matches 298; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GCGGAGGGATGGATGGTGGATACCGAGGGCACCACAGGGGGGGCAAGAGGCC 62
 Db 300 GCGCAGGGATGGATGGTGGATACCCAGGGGACCAACAGGGGGCAAGAGGCC 241

Qy 63 CTTTGTGGTGGAAAAGTGGATGGTGGATACCGAGGGCACCACAGGGGGGGCAAGAGGCC 122
 Db 240 CTTTGTGGTGGAAAAGTGGATGGTGGATACCGAGGGGACCAACAGGGGGCAAGAGGCC 181

Qy 123 CTGTGCCATCTCGAGGAAACCATTATGGATCTTGTCAAGCTAACAGCTAACAGGCC 182
 Db 180 CTGTGCCATCTCGAGGAAACCATTATGGATCTTGTCAAGCTAACAGCTAACAGGCC 121

Qy 183 GTCGCGTACTTCAGAAGAGTGTACTCTGCATGGGAGTCTGTAACCATGGTGTACTTGT 242
 Db 120 GTCGCGTACTTCAGAAGAGTGTACTCTGCATGGGAGTCTGTAACCATGGTGTACTTGT 61

Qy 243 CCACTGCTATCTCGGCTGGCTAAACACGACAGGTGTCCATTGGACACAGAGGTG 302
 Db 60 CCACTGCTATCTCGGCTGGCTAAACACGACAGGTGTCCATTGGACACAGAGGTG 1

RESULT 6
 US-09-780-016-27
 Sequence 27, Application US/09780016
 Patent No. US2000459A1
 GENERAL INFORMATION:
 APPLICANT: Donoho, Gregory
 APPLICANT: Scoville, John
 APPLICANT: Turner, C. Alexander Jr.
 APPLICANT: Friedlich, Glenn
 APPLICANT: Abuin, Alejandro
 APPLICANT: Zambowicz, Brian
 APPLICANT: Sands, Arthur T.
 TITLE OF INVENTION: No. US2000459A1el Human Proteases and
 Polynucleotides Encoding the Same
 FILE REFERENCE: LEX-0132-USA
 CURRENT APPLICATION NUMBER: US/09/780,016
 CURRENT FILING DATE: 2001-02-09
 PRIOR APPLICATION NUMBER: US 60/181,294
 PRIOR FILING DATE: 2000-02-11
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 27
 TYPE: DNA
 ORGANISM: homo sapiens
 US-09-780-016-27

Query Match 77.6%; Score 253.6; DB 9; Length 3208;
 Best Local Similarity 98.5%; Pred. No. 1.5e-56;
 Matches 256; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 68 AACTGAAAAGTGGATGGTGGATACCGAGGGCACCACATTATGGATAGCTAACAGCTGTG 127
 Db 2765 AAAAAGAAAATGGATGGTGGATACCGAGGGCACCACATTATGGATAGCTAACAGCTGTG 2824

Qy 128 CCATCTCGAGGAAACCACATTATGGATAGCTAACAGCTAACAGCTAACAGCTGTG 187
 Db 2825 CCATCTCGAGGAAACCACATTATGGATAGCTAACAGCTAACAGCTAACAGCTGTG 2884

Qy 188 CTACTCTCGAGGAGTGTACTCTGCATGGGAGTGTCAACCATGGTGTACTTGTCACT 247
 Db 2885 CTACTCTCGAGGAGTGTACTCTGCATGGGAGTGTCAACCATGGTGTACTTGTCACT 2944

Qy 248 GCATCTCGCTGGCTAAAACGAGGCTGTCATGGACACAGAGGTGGGAAT 307
 Db 2945 GCATCTCGCTGGCTAAAACGAGGCTGTCATGGACACAGAGGTGGGAAT 3004

RESULT 10

US-09-770-791-20

Sequence 20, Application US/09770791

Patent No. US200620062014A1

GENERAL INFORMATION:

APPLICANT: Gorlach, Jorn

APPLICANT: An, Yong-Qiang

APPLICANT: Price, Jennifer L.

APPLICANT: Raines, Tracy M.

APPLICANT: Yu, Yang

APPLICANT: Rameaka, Joshua G.

APPLICANT: Page, Amy

APPLICANT: Matthew, Abraham V.

APPLICANT: Ledford, Brooke L.

APPLICANT: Woessner, Jeffrey P.

APPLICANT: Haas, William David

APPLICANT: Garcia, Carlos A.

APPLICANT: Krickar, Maja

APPLICANT: Slader, Ted

APPLICANT: Davis, Keith R.

APPLICANT: Allen, Keith

APPLICANT: Hoffman, Neil

APPLICANT: Hurban, Patrick

TITLE OF INVENTION: Expressed Sequences of *Arabidopsis*

FILE REFERENCE: 2029 (PARA-018PRV)

CURRENT APPLICATION NUMBER: US/09-770-791

PRIOR APPLICATION NUMBER: 60-178-480

PRIOR FILING DATE: 2000-01-27

NUMBER OF SEQ ID NOS: 999

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 20

LENGTH: 390

TYPE: DNA

ORGANISM: *Arabidopsis thaliana*

US-09-770-791-20

Query Match 52.9% Score 173; DB 9; Length 390;

Best Local Similarity 77.7%; Pred. No. 3.7e-51; Indels 0; Gaps 0;

Matches 209; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

Qy 58 AAGCGCTTGTGAAAGTGAATGCAAGTGAATGCCCTCTGGCCCTGGGATATTGGGTT 117

Db 110 AAGCGATTCGAATTAGAATGAGCCATATGGATCTGGCTGGCTCTGGGATATGGAT 169

Qy 118 GATAACTGTCCATTCGAGAACATATGGATCTTGCATAGAATGCAAGTAAAC 177

Db 170 GACAACCTGGCATCTCGAGAACATATGGATCTTGTATCCAGTGTGGCTTAAT 229

Qy 178 CAGGGCTCGTACTTGAAGAAGTGTACTGGCATGGGAGTGTAACTATGGTTT 237

Db 230 CAGGCCAGTGGCACAAAGTGAAGAGTGCACGTAGCTGGGGTTGCAATCACGGCTTC 289

Qy 238 CACTTCCACTGCAATCTCGCTGGCTAAACAGCAAGGCTGTCCATTGGACACAGA 297

Db 290 CACTTCACTGCAATCGAGTGGCAAAAGACTCGTCAAGTGTGGCAATGGATAACAGT 349

Qy 298 GAGTGGAAATCCTAAAGTATGGCACTA 326

Db 350 GAGTGGSAGTTTCAGAAATATGGTCACTA 378

US-09-962-436-220/C

; Sequence 220, Application US/09962436

; Patent No. US20030081301A1

GENERAL INFORMATION:

APPLICANT: Soppet, Daniel

TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

FILE REFERENCE: 699230-75

CURRENT APPLICATION NUMBER: US/09/962-436

CURRENT FILING DATE: 2001-09-25

PRIOR APPLICATION NUMBER: US/60/235.082

PRIOR FILING DATE: 2000-09-25

PRIOR APPLICATION NUMBER: US/60/234.924

PRIOR FILING DATE: 2000-09-25

NUMBER OF SEQ ID NOS: 568

SOFTWARE: PatentIn version 3.0

SEQ ID NO: 220

TYPE: DNA

ORGANISM: *Homo sapiens*

US-09-962-436-220

Query Match 48.1% Score 157.4; DB 9; Length 418;

Best Local Similarity 85.4%; Pred. No. 1.4e-45;

Matches 199; Conservative 0; Mismatches 31; Indels 8; Gaps 2;

Qy 95 TCTGGCCCTGGGATATTGTGGTTAAACTGTGCCATTCTCAGGAAACCATTATGGATC 154

Db 417 TCTGGCCCTGGGATTTGTGGTTAAACTGTGCCATTCTCAGGAAATCACGGATGATC 358

Qy 155 TTTCGCTAGATAATGTCAGTAACCGGCTGCTGGCTACTTCAGAAGTGTACTGTGTCAT 214

Db 357 -TGCATGATGTCAAGTAACCAAGAGTGTACCGTGGCACTTCAAGAATGTCACGGTGCAC 300

Qy 215 GGGGACTCTGTAAACCATTGCTTTCACTTCCACTTGCATCTCGCTCTGGCTCAAACAGAC 274

Db 299 GGGGACCTGTAAACCCTGCTCTCACTT-CATCTGCTCTCACTGCTCTCAACACAAAC 241

Qy 275 AGTGTGTCATTGGAAACAGAGATGGAAATTCCAAGATGGGCACTAG 327

Db 240 AGCTGTGCCCTGTTGCAACAGAACATAGGAAATTCCAAGATGGACACAG 188

RESULT 12

US-10-198-846-2493

; Sequence 2493, Application US/10198846

; Publication No. US20030099914A1

GENERAL INFORMATION:

APPLICANT: Lille, James

APPLICANT: Xu, Yongyao

APPLICANT: Wang, Youhen

APPLICANT: Steinmann, Kathleen

TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF BREAST CANCER

FILE REFERENCE: MRI-049

CURRENT APPLICATION NUMBER: US/10/198-846

CURRENT FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: 60-306, 220

PRIOR FILING DATE: 2001-07-18

NUMBER OF SEQ ID NOS: 14084

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 2493

LENGTH: 415

TYPE: DNA

ORGANISM: *Homo sapiens*

FEATURE:

NAME/KEY: misc_feature

LOCATION: 5

OTHER INFORMATION: n = A,T,C or G

US-10-198-846-2493

Query Match

Best Local Similarity 98.6%; Pred. No. 6.3e-39; Matches 140; Conservative 0; Mismatches 2; Indels 0; Gaps 0; OTHER INFORMATION: Incyte ID No. US20010051335A1 70034333H1
 NAME/KEY: unsure
 LOCATION: 89, 219
 OTHER INFORMATION: a, t, c, g, or other
 US-09-294-093B-735

Query Match 23.4%; Score 76.4%; DB 9; Length 271;
 Best Local Similarity 70.6%; Pred. No. 1.1e-16;
 Matches 115; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 Qy 19 GTGGATACCCAGGGCACCAAGGGGGAGGCTTGAAGTGAAGAAG 78
 Db 110 GTGGTGGTCGGTCCCTCTCATCCTCCGCAGGCCAACAGCGCTTCGAGATCAAGAAG 169

Query Match 79 TCGAAATCGTAGGCCCTGGGCTGGATATTGGTTGATACTGTGGCTCGAGG 138
 Best Local Similarity 60.6%; Pred. No. 1.1e-16;
 Matches 115; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 Qy 79 TCGAAATCGTAGGCCCTGGGCTGGATATTGGTTGATACTGTGGCTCGAGG 138
 Db 170 TGAAACCCGGTGGCTGGCATGGATATCGTCTCGACA-TGCGCNATCTGCGC 228

RESULT 13 US-10-264-049-751/C
 Sequence 751, Application US/10264049
 Publication No. US20040005579A1
 GENERAL INFORMATION:
 APPLICANT: Birse et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 FILE REFERENCE: PA133P1
 CURRENT APPLICATION NUMBER: US/10/264,049
 CURRENT FILING DATE: 2002-10-04
 PRIOR APPLICATION NUMBER: PCT/US01/18569
 PRIOR FILING DATE: 2001-06-07
 NUMBER OF SEQ ID NOS: 4360
 SOFTWARE: PatentIn Ver. 3.1
 SEQ ID NO: 751
 LENGTH: 812
 ORGANISM: Homo sapiens
 US-10-264-049-751

Query Match 31.3%; Score 102.2; DB 12; Length 812;
 Best Local Similarity 97.2%; Pred. No. 1.1e-25;
 Matches 104; Conservative 3; Indels 0; Gaps 0; OTHER INFORMATION: Homo sapiens
 US-09-764-864-39

RESULT 15 US-09-764-864-39
 Sequence 39, Application US/09764864
 Patent No. US200213273A1
 GENERAL INFORMATION:
 APPLICANT: Rosen et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 FILE REFERENCE: PTZ23
 CURRENT APPLICATION NUMBER: US/09/764,864
 CURRENT FILING DATE: 2001-01-17
 Prior application data removed - consult PALM or file wrapper
 NUMBER OF SEQ ID NOS: 1792
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 39
 LENGTH: 836
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-764-864-39

Query Match 23.2%; Score 76; DB 10; Length 836;
 Best Local Similarity 56.9%; Pred. No. 2.5e-16;
 Matches 164; Conservative 0; Mismatches 15; Indels 9; Gaps 1;
 Qy 26 CCCGAGGGCACCAACAGGGGGCAAGAGGCTTGAAGTGAAGAAG 85
 Db 65 CGGGGAGCTCAGGCTCAAGTGGGGCAAGATGTTCTCCCTCAAGAAGTGGACG 124

Query Match 86 CAGTAGCCCTGGCTGGATATGGTTGATACTGTGCCACTGTGAGAACACA 145
 Best Local Similarity 56.9%; Pred. No. 2.5e-16;
 Matches 164; Conservative 0; Mismatches 15; Indels 9; Gaps 1;
 Db 125 CGGTGCCATGTGGACCTGGATCTGAGTGGATCTGAGGGTCAGG 184

Query Match 146 TTATGGATCTTGCATAGCTAACGCTTAACCAGGCTCCCTACTTCAGAAGATGTA 205
 Best Local Similarity 56.9%; Pred. No. 2.5e-16;
 Matches 164; Conservative 0; Mismatches 15; Indels 9; Gaps 1;
 Db 185 TGATGGATGCCCTGCTTAGATGCTGAGCTGAA 235

Query Match 206 CTGTGGCATGGGAGCTGTAAACCATGCTTCACTTCACAGCTCGCTGGCTCA 265
 Best Local Similarity 56.9%; Pred. No. 2.5e-16;
 Matches 164; Conservative 0; Mismatches 15; Indels 9; Gaps 1;
 Db 236 TTGTGGCTGGGAGATGTAATCATCCCTCCACAACTGCTGCACTCCCTGTGGTGA 295

RESULT 14 US-09-294-093B-735
 Sequence 735, Application US/09294093B
 Patent No. US20010051335A1
 GENERAL INFORMATION:
 APPLICANT: Laigudi, Raghunath, V.
 APPLICANT: Ito, Laura, Y.
 APPLICANT: Sherman, Bradley, K.
 TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL
 FILE REFERENCE: PL-0009 US
 CURRENT APPLICATION NUMBER: US/09/294,093B
 CURRENT FILING DATE: 1999-04-16
 PRIOR APPLICATION NUMBER: 60/082,567
 PRIOR FILING DATE: April 21, 1998
 NUMBER OF SEQ ID NOS: 6207
 SOFTWARE: PERL Program
 SEQ ID NO: 735
 LENGTH: 271
 TYPE: DNA
 ORGANISM: Zea mays
 FEATURE: misc_feature
 NAME/KEY: misc_feature

Search completed: January 22, 2004, 13:18:33
 Job time : 195 secs

protein - nucleic search, using frame Plus_P2n model									
on: January 22, 2004, 13:34:15 (without alignments) 866.716 Million cell updates/sec									
title: US-09-541-462B-2	refr. score: 616	orf length: 0	minimum DB seq length: 0	maximum DB seq length: 2000000000	st-processing: Minimum Match 0%	Maximum Match 100%	Listing First 45 summaries	total number of hits satisfying chosen parameters: 1139956	command line parameters: /ODEL=frame+P2n.model -DEV=x1h -/con2 1/USPTO_spool -/US051442/runat 22012004 125829 1552/app query.fasta_1.263 -/B-Headerd_ParentNA -QMPN=fastrn -/MINATCH=0.1 -/LOCPLIC=0 -/OPEXT=0 -/UNITS=6its -/START=1 -/END=1 -/MATRIX=b10sum62 -/TRANS=human40_cdi -/LIST=45 -/DOCNAME=200 -/THR SCORE=pct -/THR MAX=100 -/THR MIN=0 -/ALICN=15 -/LOC=LOCAL OUTEMT=PO -/NORM=MINLEN=0 -/MAXLEN=2000000000 -/USER=US0951462 @CGN 1.1 56 @runat 22012004 125829 1552 -/NCPU=6 -/ICPU=3 -/OMAP=0 -/LARGEQUERY -/NEG SCORE=0 -/WAIT -/DSPBLQCT=100 -/LONGLOC -/ENV TIMEOUT=120 -/WARN TIMEOUT=30 -/THREADS=1 -/XGAP=10 -/XGAPEXT=0.5 -/RGAP=0 -/GAPEXT=7 -/YGAPOP=10 -/YGAPEXT=0.5 -/DELPOP=6 -/DELEXT=7
database : Issued_Patents_NA: *	1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *	2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *	3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *	4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *	5: /cgn2_6/ptodata/1/ina/PCITS COMB.seq: *	6: /cgn2_6/ptodata/1/ina/backfile1.seq: *	Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.	SUMMARIES	
built No.	Score	Query Match	Length	DB ID	Description				
1	501.5	81.4	3208	4	US-09-780-016-27	Sequence 27, Appl			
2	262.5	42.6	301	4	US-09-311294A492	Sequence 1, Appl			
3	217	35.2	648	4	US-09-594-360B-27	Sequence 27, Appl			
4	90	14.6	8438	1	US-07-945-283-11	Sequence 1, Appl			
5	95	13.8	2339	3	US-09-268-140-11	Sequence 11, Appl			
6	85	13.8	2505	3	US-09-268-140-01	Sequence 1, Appl			
7	85	13.8	2517	3	US-09-268-140-07	Sequence 7, Appl			
8	83	13.5	315	4	US-09-325-932A-4	Sequence 4, Appl			
9	81.5	13.2	4259	2	US-08-816-155B-2	Sequence 2, Appl			
10	81.5	13.2	4259	3	US-09-079-587-2	Sequence 2, Appl			
11	80.5	13.1	804	3	US-08-993-613-97	Sequence 4, Appl			
12	80	13.0	944	2	US-08-785-606-4	Sequence 4, Appl			

APPLICANT: Cheung, Andrew K.
 APPLICANT: Wesley, Ronald D.
 TITLE OF INVENTION: Pseudorabies Virus Deletion Mutants
 TITLE OF INVENTION: Inviting The EPO and LTR Genes
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Curtis P. Ribando
 STREET: 1815 No. 5352536th University Street
 CITY: Peoria
 STATE: IL
 COUNTRY: USA
 ZIP: 61604

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/945, 283
 FILING DATE: 19920911
 CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
 NAME: Ribando, Curtis P.
 REGISTRATION NUMBER: 27976
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 309-685-4011 ext. 513
 TELEFAX: 309-685-4128

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 8438 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Pseudorabies virus
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 622..6495
 FEATURE:
 NAME/KEY: variation
 LOCATION: replace(1099, "g")
 FEATURE:
 NAME/KEY: variation
 LOCATION: replace(1267, "t")
 FEATURE:
 NAME/KEY: variation
 LOCATION: replace(1381, "c")
 FEATURE:
 NAME/KEY: variation
 LOCATION: replace(1566, "c")
 FEATURE:
 NAME/KEY: variation
 LOCATION: replace(7010, "g")

US-07-945-223-1 Alignment Scores:
 Prg. No.: 0.795 Length: 8438
 Score: 90.00 Matches: 29
 Percent Similarity: 40.86% Conservative: 9
 Best Local Similarity: 31.18% Missmatches: 25
 Query Match: 14.61% Inexact: 31
 DB: 1 Gaps: 6

US-09-541-462B-2 (1-108) x US-07-945-283-1 (1-8438)

6 AspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysAspCys
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 1568 GATGTAGTGGTCC-----GAGGGTCCGGTGG-TCCCGGGATGG

26 LysTrpAsnAlaValAlaLeuTrpAlaLysAspIleValValValAsp

```

Db 1521 CGATGG-----TGGTCCGTCATG-----GACTGCCCATCTGC 1489
Qy 46 ArgAsnHisLeMetAlpLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSer 65
Db 1488 -----CTGGCGTC-----GCGGCCACC 1471
Db 66 GluGlucysThrValAlaTrpGlyValCysAsnHisAlaPheHisPheHisCysIleSer 85
Qy 1470 GAGGGAGACCTGCCG-----TGATGCAAGTCTGACTGCTGACTGCTGCCAG 1420
Qy 96 ArgTriPheLeuThrArgGlnValCysProLeuAspAla 98
Db 1419 CCCTGGACCCCTGACGAGCACCGCTGGCCGCTGCAAT 1381

RESULT 5
US-09-268-140-11
Sequence 11 Application US/09268140
Patent No. 6288176
GENERAL INFORMATION:
APPLICANT: Gemmill, Robert M.
APPLICANT: Drabkin, Harry A.
TITLE OF INVENTION: TRC8, A GENE RELATED TO THE HEDGEHOG RECEPTOR, PATCHED
FILE REFERENCE: 33445-00004
CURRENT APPLICATION NUMBER: US/09/268 140
CURRENT FILING DATE: 2000-03-12
PRIOR APPLICATION NUMBER: US 60/077,723
PRIOR FILING DATE: 1998-03-12
NUMBER OF SEQ ID NOS: 46
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO. 11
LENGTH: 2339
TYPE: DNA
ORGANISM: Homo sapiens
US-09-268-140-11

Alignment Scores:
Bred. No.: 0.585 Length: 2339
Score: 85.00 Matches: 24
Percent Similarity: 40.48% Conservative: 10
Best Local Similarity: 13.80% Mismatches: 22
Query Match: 3 Indels: 28
Db: 3 Gaps: 4
US-09-541-462B-2 (1-108) x US-09-268-140-11 (1-2339) 37

Qy 20 LysArgPheGluValLysBtrPheAlaLeuTrpAlaTrpAspIle----- 37
Db 1635 CGTAGGACTGCTGAAAAAATAATTACCTACTCCT-----GAATAAAAGGG 1682
Qy 38 -----ValValAspAsnCysAlaIleCysArgAsnHisIleMetAspLeu 52
Db 1683 AGCCGGTTACAAGAAATAATGATGTAATGCTGCAATCTGCTATCATGAGTT----- 1733
Qy 53 CysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGlucySThrValAlaTrp 72
Db 1734 -----ACAAACATCTGCTCGTATCA----- 1754
Qy 73 GlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTriPheLeuSThrArgGln 92
Db 1755 --CCGTTAACATATTCCATGCACTTGCCTGGAAATGGCTGTACATTCAAGAT 1811
Qy 93 ValCysProLeu 96
Db 1812 ACTTGTCCTAATG 1823

RESULT 6
US-09-268-140-1
Sequence 1 Application US/09268140
Patent No. 6288176
GENERAL INFORMATION:
APPLICANT: Gemmill, Robert M.
APPLICANT: Drabkin, Harry A.

```

Score: 85.00 Matches: 24
Percent Similarity: 40.48% Conservative: 10
Best Local Similarity: 28.57% Mismatches: 22
Query Match: 13.80% Indels: 28
DB: 3 Gaps: 4

US-09-541-462B-2 (1-108) x US-09-268-140-7 (1-2517)

Qy 20 LysArgPheGluValLysLysTrpAsnAlaLeuTrpAlaTrpAspIle----- 37
DB 1813 CGTAGGACTGCTGTGAACAAATAATTCACTCCCT-----
Qy 38 -----ValValAspAspCysAlaIleCysArgAsnHisIleMetAspLeu 52
DB 1861 AGCCGCTTACAGAAAAPAAATGATGTTGATCTGCTATCATGAGTT-----
Qy 53 CysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGlyCysThrValAlaTrp 72
DB 1912 -----ACACATCIGCTCTATACA----- 1932
Qy 73 GlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTrpLeuIleThrArgGln 92
DB 1933 ---CCGRTGAAATCATTATTCCATGCACTTTCGCTTCGAAATCGCTGTACATTCAAGAT 1989

Qy 93 ValCysProLeu 96
DB 1990 ACTTGTCAAATG 2001

RESULT 8
US-09-325-932A-4
Sequence 4, Application US/09325932A
Patent No. 6451604
GENERAL INFORMATION:
APPLICANT: Flinn, Barry
APPLICANT: Lasham, Annette
TITLE OF INVENTION: Compositions affecting programmed cell death and their use in the modification of forestry plant
FILE REFERENCE: 1022
CURRENT APPLICATION NUMBER: US/09/325,932A
CURRENT FILING DATE: 1999-06-04
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 4
LENGTH: 315
TYPE: DNA
ORGANISM: Pinus radiata
US-09-325-932A-4

Alignment Scores:
Fwd. No.: 0.0674 Length: 315
Score: 83.00 Matches: 17
Percent Similarity: 38.18% Conservative: 4
Best Local Similarity: 30.91% Mismatches: 20
Query Match: 13.47% Indels: 14
DB: 4 Gaps: 1

US-09-541-462B-2 (1-108) x US-09-325-932A-4 (1-315)

Qy 42 CysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAla 61
DB 74 TGGCGCTGCTGCTGCTGAAAGTCGAAACAT----- 106
Qy 62 SerAlaThrSerGluGlyCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPhe 81
DB 107 -----GAGATTCTCCGGTTACTCCCCAAGTCACGCCATTCACATC 151

Qy 82 HisCysIleSerArgTrpLeuIleThrArgGlnValCysProLeu 96
DB 152 GATTGCTATCGATTATGGCTTGAAGGAACTCAAGCTCCCGCTC 196

RESULT 9
US-09-816-155B-2
Sequence 2, Application US/09816155B

RESULT 10
 Patent No. 5990091
 GENERAL INFORMATION:
 APPLICANT: TARTAGLIA, JAMES
 APPLICANT: COX, WILLIAM J.
 APPLICANT: MARTINEZ, HECTOR
 APPLICANT: PAOLETTI, ENZO
 APPLICANT: PINCUS, STEVEN E.
 TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
 TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
 NUMBER OF SEQUENCES: 48
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
 STREET: 745 FIFTH AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10151
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/816,155B
 FILING DATE: 12-MAR-1997
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: KOWALSKI, THOMAS J.
 REGISTRATION NUMBER: 32,147
 REFERENCE/DOCKET NUMBER: 454310-2990
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-588-0800
 TELEFAX: 212-588-0500
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 4259 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-816-155B-2
 Alignment Scores:
 Pred. No.: 3.64 Length: 4259
 Score: 81.50 Matches: 22
 Percent Similarity: 36.14% Conservative: 8
 Best Local Similarity: 26.51% Mismatches: 31
 Query Match: 13.23% Indels: 31
 DB: 2 Gaps: 4
 US-09-541-462B-2 (1-108) x US-08-816-155B-2 (1-4259)
 Qy 42 CysAlaLysCysIleSerArgTpLeuLys----ThrArgGln 92
 Db 145 TGTAGCGPATGCTAGAAGAAATACCAAAAGAATTAACAA---- 192
 Qy 62 SerAlaThrSerGluGluCysThrValAlaTrpGlyVal----CysAsnGlnAla 78
 Db 193 ----
 Qy 42 CysAlaLysCysIleSerArgTpLeuLys----ThrArgGln 92
 Db 145 TGTAGCGPATGCTAGAAGAAATACCAAAAGAATTAACAA---- 192
 Qy 62 SerAlaThrSerGluGluCysThrValAlaTrpGlyVal----CysAsnGlnAla 78
 Db 193 ----
 Qy 79 PheHisPheIleCysIleSerArgTpLeuLys----ThrArgGln 92
 Db 226 TTTGTTTACTGATACAACTGGTGTCTATAAAGGTACCGAAGGT 285
 Qy 93 ValCysPro----LeuAspIleAspGluLrpGluPhe 103
 Db 286 ACATGTCCTGTATGTAGAACAGTTCTCTATTTAGTGCCTAATGGTACTGGATAGAC 345
 Qy 104 GlnLysTyr 106
 Db 346 GATAAAT 354
 Qy 93 ValCysPro----LeuAspIleAspGluLrpGluPhe 103

Db 286 ACATGCCCTGTAGAACAGTTCTGTATTATAGCTTAACTAGGATGAC 345
 Qy 104 GlyIstyR 106
 Db 346 GATAATAT 354

RESULT 11
 US-08-998-416-881
 Sequence 881, Application US/08998416
 Patent No. 6239464

GENERAL INFORMATION:
 APPLICANT: Philippsen, Peter
 APPLICANT: Pohlmann, Rainer
 APPLICANT: Steiner, Sabine
 APPLICANT: Mohr, Christine
 APPLICANT: Wendland, Jürgen
 APPLICANT: Knechtle, Philipp
 APPLICANT: Rebschung, Corinne
 TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHYA GOSSYPII
 TITLE OF INVENTION: AND USES THEREOF
 NUMBER OF SEQUENCES: 1152

CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. 6239244artis Corporation
 STREET: 3054 Cornwallis Road
 CITY: Research Triangle Park
 STATE: No. 6239264th Carolina
 COUNTRY: USA
 ZIP: 27709

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/998,416
 FILING DATE: 24-DEC-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: CH 0016/97
 FILING DATE: 31-DEC-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Maiges, J. Timothy
 REGISTRATION NUMBER: 38,241
 REFERENCE DOCKET NUMBER: PF/5-30306/A/CGC1976
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-541-8587
 TELEFAX: 919-541-8689
 INFORMATION FOR SEQ ID NO: 881:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 804 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ORIGINAL SOURCE:
 ORGANISM: PAG1552RP
 US-08-998-416-881

Alignment Scores:
 Pred. No.: 0.499 Length: 804
 Score: 80.50 Matches: 13
 Percent Similarity: 66.67% Conservative: 5
 Best Local Similarity: 48.15% Mismatches: 6
 Query Match: 13.07% Indels: 3
 DB: 3 Gaps: 1

US-09-541-462B-2 (1-108) x US-08-998-416-881 (1-104)
 Qy 73 GlyIValCysAsnHisAlaPheIleHisPheIleCysIleSerArgTriPheLeuThr---- 90
 Db 8 GGCTCATGCCACCAACACTCCACTGCACTACAGTGGCTCAACCTCCAC 67

Qy 91 ---ArgGlnValCysProLeu 96

IMMEDIATE SOURCE:
 LIBRARY: TESTNOT07
 CLONE: 3217567
 US-09-234-613-97

Alignment Scores:
 Pred. No.: 0.897 Length: 1112
 Score: 80.00 Matches: 29
 Percent Similarity: 39.81% Conservative: 12
 Best Local Similarity: 28.16% Mismatches: 18
 Query Match: 12.99% Indels: 44
 DB: 3 Gaps: 7

US-09-541-462B-2 (1-108) x US-09-234-613-97 (1-1112)

Qy 1 MetAlaAlaAlaMetAspValAsp---ThrProSerGlyThrAsn-----SerGly 16
 Db 100 ATGGCAGGAGCGGGAGGGAGGAAAGGGCCAAATCGGGAGGGGGGGGG 159

Qy 17 AlaGlyLysArgPheGluValLysIstPheAsnAlaValAlaLeuItpAlaItpAsp 36
 Db 160 GCGGC---GGCAGCTTCGAA----- 177

Qy 37 IleValValAspAsnCysAlaIleCysArgAsnHist1leMetAspLeuCysIleGluCys 56
 Db 178 -----TGTAAATATGTTGTTGGAC--- 195

Qy 57 GluAlaAsnGlnAlaSerAlaIhrSerGluGlyCysThrValAlaItpGlyValCysAsn 76
 Db 196 -----ACTGCTGGAAAGCTGCTGTCAGT----GTGTRGGC 228

Qy 77 HisAlaPheHisIleCysIleSerGluItpLeuIysThr-----ArgGlnVal 93
 Db 229 CACTGTACTGTTGGCCATGTCCTCATCATGTTGGAGAACGGCCAGAACGGAAAGAG 288

Qy 94 CysProLeu 96
 Db 289 TGTCAGTA 297

RESULT 15
 US-07-945-233-3
 Sequence 3, Application US/07945233
 Patent No. 5355596
 GENERAL INFORMATION:
 APPLICANT: Cheung, Andrew K.
 APPLICANT: Wesley, Ronald D.
 TITLE OF INVENTION: Pseudorabies Virus Deletion Mutants
 NUMBER OF SEQUENCES: 7
 ADDRESSEE: Curtis P. Ribando
 STREET: 1815 No. 5352596th University Street
 CITY: Peoria
 STATE: IL
 COUNTRY: USA
 ZIP: 61604

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/945,283
 FILING DATE: 19920911
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: 'Ribando, Curtis P.
 REGISTRATION NUMBER: 27976
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 309-685-4011 ext. 513
 TELEFAX: 309-685-4128
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:

Qy 104 GlnLysTyrGlyHis 108
 ||| :||| |||||
 Db 304 CAAGGTGGGAC 318

US-10-240-965-99/c
 / Sequence 99, Application US/10240965
 / Publication No. US20030165924A1
 / GENERAL INFORMATION:
 / APPLICANT: INCYTE GENONICS, INC.
 / APPLICANT: SHIFFMAN, Dov
 / APPLICANT: SOMOGYI, Roland
 / APPLICANT: LAWN, Richard M.
 / APPLICANT: SEILHAMER, Jeffrey J.
 / APPLICANT: PORTER, Gordon J.
 / APPLICANT: MIKITA, Thomas S.
 / APPLICANT: TAI, Julie
 / TITLE OF INVENTION: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION
 / FILE REFERENCE: PA-0025 PCT
 / CURRENT APPLICATION NUMBER: US/10/240, 965
 / CURRENT FILING DATE: 2002-10-04
 / PRIOR APPLICATION NUMBER: 60/1195,106
 / PRIOR FILING DATE: 2000-04-05
 / NUMBER OF SEQ ID NOS: 276
 / SOFTWARE: PERL Program
 / SEQ ID NO: 99
 / LENGTH: 5347
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / FEATURE:
 / NAME/KEY: misc_feature
 / OTHER INFORMATION: Incyte ID No. US20030165924A1 364940.19
 US-10-240-965-99

Alignment Scores:
 Pred. No.: 1.27e-67 Length: 5347
 Score: 573.00 Matches: 103
 Percent Similarity: 99.04% Conservative: 0
 Best Local Similarity: 99.04% Mismatches: 0
 Query Match: 93.02% Indels: 1
 DB: 13 Gaps: 0

US-09-541-462B-2 (1-108) x US-10-240-965-99 (1-5347)

Qy 3 AlaAlaValAspValAspThrProSerGlyThrAsnSerGlyAla-GlyLysValAspGly 22
 Db 515 GGCGGTGATGGTGGATCCCGAGGGCACAACGGGGCAAGAGGCCT 456

Qy 22 eGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAsp 42
 Db 455 TGAATGAAAAACTGGATGCAACTGGCTCTGGCTGGATATGGTATACTG 396

Qy 42 sAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaAsp 62
 Db 395 TGCATCTGAGGAACCACATTGGATCTTGTCATGAATGTCAAAGTAAACGGGTC 336

Qy 62 rAlaThrSerGluGlucySThrValAlaIleTrpGlyValCysAsnHisAlaIlePheHisPheHi 82
 Db 335 CGTACTTCAGAGGTGACTGTGATGGAGTCGATGCTTCACTCTCA 276

Qy 82 eCysIleSerAspTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGluTrpGlu 102
 Db 275 CTGATCTTCGTCGTCAGTCAGTCAGTCATGGTCAATTGACAGGAGTCGG 216

Qy 102 uPheGlnLys 105
 Db 215 ATTCCAAAG 206

RESULT 5
 US-10-205-833-382/C
 / Sequence 382, Application US/10205823
 / Publication No. US20030108963A1
 / GENERAL INFORMATION:

Qy 63 AlaThrSerGluGlucySThrValAlaIleTrpGlyValCysGlnAlaAspGlnAlaAsp 62
 Db 116 GCTACTTCAGAGGTGACTGTGATGGAGTCGATGCTTCACTCTCA 117

Qy 83 CysIleSerAspTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu 100
 Db 56 TGCATCTTCGTCAGTCAGTCATGGTCAATTGACAGGAGTCGG 3

RESULT 6
 US-09-770-791-20
 / Sequence 20, Application US/09770791
 ; Patent No. US0020062014A1
 / GENERAL INFORMATION:
 / APPLICANT: Gorlach, Jorn
 / APPLICANT: An, Yong-Qiang
 / APPLICANT: Hamilton, Carol M.

LENGTH: 3208
 TYPE: DNA
 ORGANISM: homo sapiens
 US-10-214-811-27

Alignment Scores:
 Pred. No.: 4.09e-58
 Score: 501.50
 Percent Similarity: 95.70%
 Best Local Similarity: 94.62%
 Query Match: 81.41%
 DB: 15

US-09-541-462B-2 (1-108) x US-10-214-811-27 (1-3208)

Qy 16 GlyAlaGlyLysIysSAspPheGluValIysLysTrpAlaValAlaLeuTrpAlaTrp 35
 Db 2752 GGGCATAAAGAAAAAA-.....-AAAATGGATGCGTAGCTGGCCGG 2802

Qy 36 AspIleValValAspAspCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGlu 55
 Db 2803 GATATTGTTGTTGATAACTGTGCATCTCGAGAACCACTATGGATCTTGATGAA 2862

Qy 56 CysGlnAlaAsnGlnAlaSerAlaThrSerGluGlyCysThrValAlaTrpGlyIys 75
 Db 2863 TGTCAAAGCTAACAGGCTCCGCTACTCTAGAAGAGTCACTGTGATGGGAGTCGT 2922

Qy 76 AspIleAlaPheHisCysIleSerArgTrpIleValGluValCysPro 95
 Db 2923 ACCATGCTTTTACATTCACATCTGATCTCGTGGCTCAAACACGACAGTGTGCCA 2982

Qy 96 LeuAspAsnArgGluTrpGluPheGlnIysTrpGlyIys 108
 Db 2983 TTGGACACAGAGAGTGGGAATTCCAAAGATGGATGGCAC 3021

RESULT 9
 US-09-918-995-14771
 ; Sequence 14771, Application US/09918995
 ; Publication No. US20030073623A1

GENERAL INFORMATION:
 ; APPLICANT: Hyseq, Inc.
 ; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
 ; FILE REFERENCE: 20411-756
 ; CURRENT APPLICATION NUMBER: US/09/918-995
 ; CURRENT FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: US/09/215,076
 ; PRIOR FILING DATE: 1999-01-20
 ; NUMBER OF SEQ ID NOS: 38054
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 14771

TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-918-995-14771

Alignment Scores:
 Pred. No.: 7.74e-45
 Score: 396.00
 Percent Similarity: 98.55%
 Best Local Similarity: 97.10%
 Query Match: 64.29%
 DB: 11

US-09-541-462B-2 (1-108) x US-09-918-995-14771 (1-439)

Qy 27 TrpAsnAlaValAlaLeuTrpAlaTrpAspIleValAlaAspAsnCysAlaCysArg 46
 Db 232 TGGATGCGATCCCTCGGCGTGGATATTGGATGATAACTGTGCCATCTGAGG 291

Qy 47 AsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGlu 66
 Db 292 AACACATTATGGATCTTGCATGAAATCAGCTAACAGCGTCCGCTACTTCAGAA 351

Qy 67 GluCysThrValAlaTrpGlyIysValCysGlnAlaAlaPheHisCysAlaCysArg 86
 Db 352 GAGTGTACTGTGCATGGGGTCTCACTGCTTCACTGCTTCAC 411

Qy 87 TrpLeuIysThrArgIvalCysPro 95
 Db 412 TGGCTCAAACACGACAGGTGTGCCA 438

RESULT 10
 US-10-017-721-3
 ; Sequence 3, Application US/10017721
 ; Publication No. US20030096218A1

GENERAL INFORMATION:
 ; APPLICANT: McCarty, Jeanette
 ; APPLICANT: Daley, George
 ; APPLICANT: Bolk, Stacey
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
 ; FILE REFERENCE: NMI - 003
 ; CURRENT APPLICATION NUMBER: US/10/017,721
 ; CURRENT FILING DATE: 2001-12-14
 ; PRIOR APPLICATION NUMBER: US 60/317,033
 ; PRIOR FILING DATE: 2001-09-04
 ; PRIOR APPLICATION NUMBER: US 60/330,248
 ; PRIOR FILING DATE: 2001-10-17
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 3
 ; LENGTH: 175561
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-017-721-3

Alignment Scores:
 Pred. No.: 3.29e-35
 Score: 352.50
 Percent Similarity: 78.70%
 Best Local Similarity: 69.44%
 Query Match: 57.22%
 DB: 15
 ; Gaps: 1
 ; Length: 175561
 ; Matches: 75
 ; Conservativeness: 10
 ; Mismatches: 20
 ; Indels: 5

US-09-541-462B-2 (1-108) x US-10-017-721-3 (1-175561)

Qy 1 MetAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyIys 20
 Db 59458 ATGGCAGTGGCATGGATGTTGATACCCGAGAAGTACCAACAGCATGCTTTGAGTAA 59517

Qy 21 ArgPheGluValLysIysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValAlaAsp 40
 Db 59518 AAAAGCTAAATGCAG-----TAGCTAGCCCTGGGATGTTGATGCTAAAGCTAACCAA 59568

Qy 41 AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGln 60
 Db 59569 AACCTGGCCATCTGGGAAATCACAGCATGATC-TGATTGAAATGTCAGCTAACCAA 59626

Qy 61 AlaSerAlaThrSerGluGluCysThrValAlaTrpGlyIysValCysSerHisAlaPheHis 80
 Db 59627 GAGTCCTCCACTTCAGAGTGTACCGTTGACGGGAGCTGTACCGTCTTCAC 59686

Qy 81 PheHisCysIleSerArgTrpIleIysThrArgGlnValCysProLeuIleAsnAsnArgGlu 100
 Db 59687 TT-CACTGTCCTCTCACTGCTCAAAACACAGCTGTCCTGTGGACAAACGACAA 59745

Qy 101 TrpGluPheGlnIysTrpGlyIle 108
 Db 59746 TAGGAAATCCAAAGTAGGACAC 59769

RESULT 11
 US-09-962-436-220/C
 ; Sequence 220, Application US/09962436
 ; Patent No. US2003008130A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Soppet, Daniel

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; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-75
; CURRENT APPLICATION NUMBER: US/09/962,436
; CURRENT FILING DATE: 2001-09-25
; PRIORITY APPLICATION NUMBER: US/60/235,082
; PRIORITY FILING DATE: 2000-05-25
; PRIORITY APPLICATION NUMBER: US/60/234,924
; PRIORITY FILING DATE: 2000-09-25
; NUMBER OF SEQ ID NOS: 568
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 220
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-962-436-220

Alignment Scores:
Pred. No.: 32 LeuTrpAlaTrpAspIleValIvalAspAsnCysAlaIleCysArgAsnHisIleLeuMetAsp 51
Score: 292.00 Length: 418
Percent Similarity: 84.42% Matches: 58
Best Local Similarity: 75.32% Conservative: 7
Query Match: 47.40% Mismatches: 12
DB: 9 Indels: 2
Gaps: 0

US-09-541-462B-2 (1-108) x US-09-962-436-220 (1-418)
Qy 32 LeuTrpAlaTrpAspIleValIvalAspAsnCysAlaIleCysArgAsnHisIleLeuMetAsp 51
Db 418 GTCGGCTGGATGTTGAACTGTTGAACTGTTGAACTGTTGAACTGAGGATCACAGCATGGAT 359
Qy 52 LeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrValAla 71
Db 358 C-TGCAATTGAATGCAAGCTGGCAACTTCAAAAGAGCTGTACCGTGCA 301
Qy 72 TrpGlyValCysAsnHisAlaPheHisPheIleSerArgTrpLeuLysThrArg 91
Db 300 CGGGAGCTGTAAACGTGTTTGACTT-CACTGCTCTCACTGGCTCAAAACCAA 242
Qy 92 GlnValCysProLeuAspAsnArgIleTrpGluPheGlnIystCysLysHis 108
Db 241 CAGTGTGCTGTGACACAGAAATCCARAGTAGTGGACAC 191

RESULT 12
US-09-764-864-39
; Sequence 39, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 39
; LENGTH: 836
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-864-39

Alignment Scores:
Pred. No.: 368ee-30 Length: 836
Score: 292.00 Matches: 49
Percent Similarity: 64.35% Conservative: 14
Best Local Similarity: 50.52% Mismatches: 30
Query Match: 47.40% Indels: 4
DB: 10 Gaps: 2

US-09-541-462B-2 (1-108) x US-09-764-864-39 (1-836)
; ServIvThrAsnSerGlnValAlaGlyValIysArgPheGluValIysArgValIysArgValAlaVal 30

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